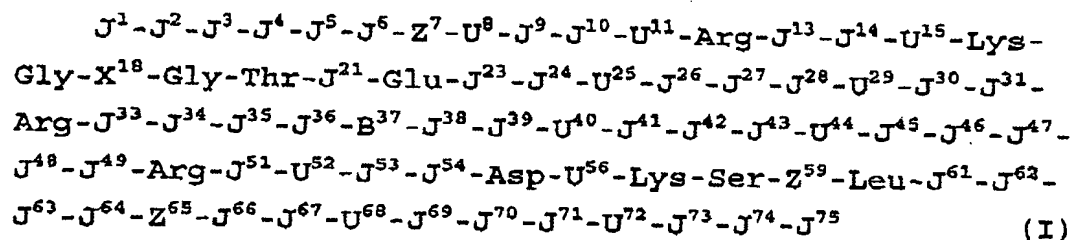


ABSTRACT

The present invention relates to a peptide labelled with fluorine-18 for the specific recognition of lipid vectors. The peptide of the invention comprises the following peptide sequence (PI):



in which the amino acids J are chosen independently of each other from natural amino acids, or derivatives thereof, in such a manner that at least 50% of them are polar residues chosen from Arg, Asn, Asp, Cys, Gln, Glu, Gly, His, Lys, Orn, Pro, Ser, Thr and Tyr, the amino acids U are chosen from Ala, Cys, Gly, Ile, Leu, Met, Phe, Trp, Tyr and Val, the amino acid X¹⁸ is chosen independently of the other amino acids of the sequence from Ala, Asn, Cys, Gln, Gly, His, Ile, Leu, Met, Phe, Ser, Thr, Trp, Tyr and Val, the amino acid B³⁷ is chosen independently of the other amino acids of the sequence from Arg, Ala, Cys, Gly, Ile, Leu, Met, Phe, Trp, Tyr and Val, the amino acid Z⁷ is chosen independently of the other amino acids from Asp and Glu, the amino acids Z⁵⁹ and Z⁶⁵ are chosen independently from Glu, Asp, Lys and Arg, the superscripts of the residues J, Z, U, X and B representing the positions of these amino acids in the said sequence.